What is claimed is:

1. A master digital data creation device comprising:

an encryption block generating a first control word based on a specified allowable number of reproductions and applying a one-way function to the first control word the allowable number of reproductions to generate a second control word;

a scrambler receiving the second control word for scrambling desired first digital data using the second control word to produce second digital data; and

an output block outputting the second digital data and the first control word to an external device.

2. A digital data reproduction device comprising:

an acceptor accepting recording media on which second digital data and a first control word CW_k are recorded, said first control word being generated based on a specified allowable number of reproductions, said second digital data being generated by scrambling desired first digital data using a second control word CW_0 generated by applying a one-way function to the first control word CW_k **k** times;

a decryption block receiving the first control word CW_k and applying the one-way function to the first control word CW_k **k** times to produce the second control work CW_0;

a de-scrambler receiving the second digital data and the second control word CW_0 and de-scrambling the second digital data using the second control word CW_0 to produce the first digital data; and

a reproduction unit reproducing the first digital data generated by said de-scrambler,

wherein, after the reproduction by said reproduction unit, said decryption block writes a third control word $CW_{(k-1)}$ back to said recording media, said third control word $CW_{(k-1)}$ being generated by applying the one-way function to the first control word CW_k once, and wherein, if the first control word CW_k received from the recording media equals the second control

word CW_0, the de-scrambling by said de-scrambler and the reproduction by said reproduction unit are inhibited.

3. The digital data reproduction device according to claim 2, wherein, when a desired number of reproductions, n, is received from some other reproduction device, said decryption block receives the first control word CW_k from the recording media and, if $k \geqq n$, applies the one-way function to the first control word CW_k (k-n) times to produce the third control word CW_n and applies the one-way function to the first control word CW_k n times to produce the fourth control word $CW_{(k-n)}$; if $k<n$, produces the first control word CW_k as the third control word CW_n and produces the second control word CW_0 as the fourth control word $CW_{(k-n)}$; and records the fourth control word $CW_{(k-n)}$ on the recording media for updating, further comprising:

an output block outputting the second digital data recorded on the recording media, and the third control word CW_n obtained from the decryption block, to the other reproduction device.